

CONSTRUCTION PLANS FOR

TOMBSTONE MUNICIPAL AIRPORT

TOMBSTONE, ARIZONA

191910003 - Tombstone Apron Expansion

ADOT GRANT NO. E1S1W01C ISSUE FOR BID SUBMITTAL AUGUST 23, 2023

GENERAL PROJECT DESCRIPTION:

BASE BID: APRON EXPANSION WITH DRAINAGE IMPROVEMENTS ALTERNATE 1: APRON CRACK SEAL AND SEAL COAT

THIS PROJECT

COORDINATION LIST

OWNER/DEVELOPER:

CITY OF TOMBSTONE PO BOX 339 613 E. ALLEN ST. TOMBSTONE, AZ 85638 520-266-2294 ATTN: JESS GRASSMAN, AIRPORT MANAGER

ENGINEER:

KIMLEY-HORN AND ASSOCIATES, INC. 1001 W. SOUTHERN AVE, SUITE 131 MESA, AZ 85210 602-906-1185 ATTN: BRANDON ROBINSON

WWW.KIMLEY-HORN.COM

BENCHMARK:

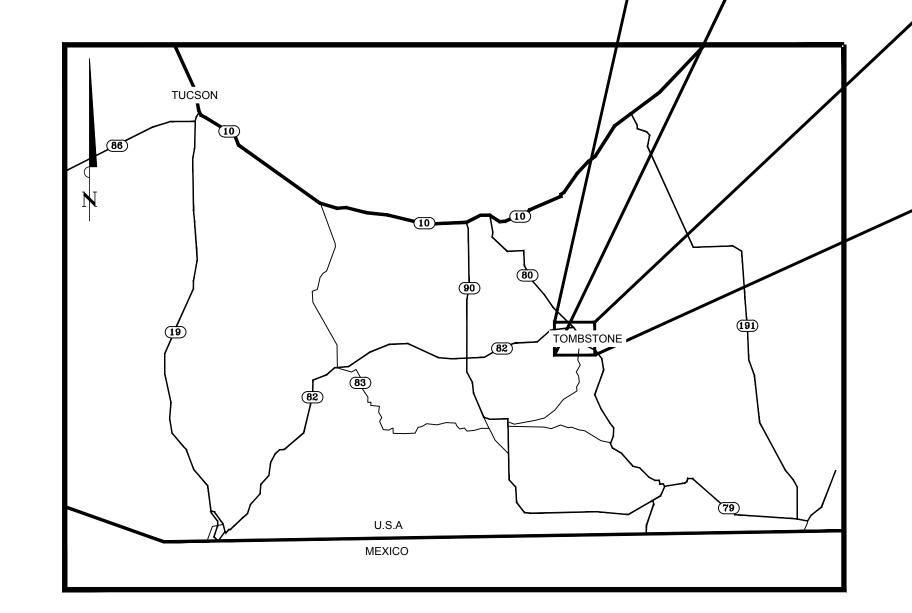
HORIZONTAL DATUM IS NAD83 AND THE VERTICAL DATUM IS NAVD88. ALL COORDINATES IN U.S. SURVEY FEET.

GROUND TO GRID FACTOR: 1.000145

BASIS OF BEARING:

BASIS OF BEARING FOR THIS PROJECT IS A STRAIGHT LINE BETWEEN A 1" BRASS CAPPED PIN AT THE SOUTH-WEST END OF RUNWAY 6-24 TO A 1" BRASS CAPPED PIN AT THE NORTH-EAST END OF RUNWAY 6-24. SAID BEARING BEING S 59°58'22" W.

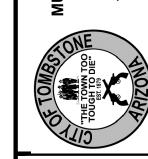
BASIS OF ELEVATION FOR THIS PROJECT IS PRIMARY CONTROL STATION "PO8A", POINT NO. 1 SAID ELEVATION BEING 1566.72 INT. FT. (NAVID 88)



VICINITY MAP

SHEET TITLE COVER SHEET STORM DRAIN PLAN & PROFILE PAVEMENT MARKING

SHEET LIST TABLE



PROJECT NO. 191593007 DRAWING NAME 91910003CV.dwg

SHEET NO. 1 OF 12

KINGMAN WILLIAMS

FLAGSTAFF

TOMBSTONE

ARIZONA

LOCATION MAP

N.T.S.

PHOENIX

GENERAL NOTES

- THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL AVIATION ADMINISTRATION ADVISORY CIRCULARS, STANDARDS AND RECOMMENDATIONS FOR AIRPORT DESIGN, INCLUDING: 150/5370, (LATEST EDITION) STANDARDS FOR SPECIFYING CONSTRUCTION FOR AIRPORTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL TOMBSTONE MUNICIPAL AIRPORT PROPERTY, AND SHALL PROTECT FROM DAMAGE OR DISTURBANCE, ALL LAND MONUMENTS AND PROPERTY MARKERS. IF DAMAGED OR INJURED DURING THE WORK, THE CONTRACTOR SHALL RESTORE, AT HIS OWN EXPENSE, SUCH PROPERTY TO A CONDITION EQUAL TO THAT EXISTING BEFORE SUCH DAMAGE OR INJURY WAS DONE. BY REPAIRING. REBUILDING OR RESTORING AS DIRECTED BY AND TO THE SATISFACTION OF THE ENGINEER.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND/OR THE SURVEYOR PROVIDING THE CONSTRUCTION LAYOUT TO COMPARE THE SITE CONDITIONS WITH THE PLANS AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES OBSERVED. SHOULD ANY GRADE OR DESIGN INDICATED ON THE PLANS BE SUSPECT, THE ENGINEER SHALL BE NOTIFIED OF SAID AREA AT LEAST FORTY-EIGHT HOURS BEFORE CONSTRUCTION IS SCHEDULED TO BEGIN ON THE AFFECTED AREA. IF THE ENGINEER IS NOT NOTIFIED PRIOR TO THE START OF CONSTRUCTION OF THE AFFECTED AREA, ANY DISCREPANCIES SHALL BE DEEMED TO BE THE RESPONSIBILITY OF THE CONTRACTOR AND/OR SURVEYOR AND WILL NOT BE PAID FOR BY CHANGE ORDER.
- ACCESS/HAUL ROUTES HAUL ROUTES ON THE AIRPORT SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER OR ONSITE AIRPORT REPRESENTATIVE. ON-SITE HAUL ROUTES WILL BE MAINTAINED BY THE CONTRACTOR AND SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UPON COMPLETION OF BEING USED AS A HAUL ROUTE. DRAINAGE, GRADING OR OTHER WORK NECESSARY TO CONSTRUCT HAUL ROUTES ON THE AIRPORT IS THE CONTRACTOR'S RESPONSIBILITY AND MUST BE APPROVED BY THE ENGINEER PRIOR TO ANY WORK. THE CONTRACTOR SHALL NOT ENTER ONTO ANY AREA OUTSIDE OF THE LIMITS OF GRADING, STAGING AREAS OR DESIGNATED ACCESS/HAUL ROUTES WITHOUT THE WRITTEN APPROVAL BY THE ENGINEER.
- STAGING AREA A CONTRACTORS STAGING AREA IS PROVIDED AS SHOWN ON THE PROJECT LAYOUT PLAN. THE CONTRACTOR WILL BE REQUIRED TO COORDINATE WITH THE TOMBSTONE MUNICIPAL AIRPORT ON THE PRECISE LOCATION AND LIMITS OF ANY ADDITIONAL STAGING AREAS IF NEEDED.
- EXISTING UTILITY LOCATIONS, AS SHOWN ON THESE PLANS, WERE COMPILED BASED ON INFORMATION AVAILABLE TO THE ENGINEER. UTILITY LOCATIONS ARE APPROXIMATE AND ARE NOT INTENDED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL NOTIFY THE BLUE STAKE CENTER (1-800-782-5348) AND THE CITY OF TOMBSTONE AT LEAST 48 HOURS IN ADVANCE BEFORE DIGGING.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES AND THE PROTECTION AND REPAIR OF DAMAGE TO THEM. THE CONTRACTOR SHALL POTHOLE IF NECESSARY IN AREAS OF SHALLOW OR CONGESTED UTILITIES TO VERIFY EXACT LOCATIONS OF UTILITIES AS REQUIRED DURING CONSTRUCTION ACTIVITIES. ANY UTILITIES ENCOUNTERED WHICH ARE NOT SHOWN SHALL BE NOTED ON THE AS-BUILTS. COST OF POTHOLING IS INCIDENTAL TO THE CONTRACT.
- SAWCUTTING OF PAVEMENT SHALL BE REQUIRED FOR PAVEMENT REMOVAL IN EVERY LOCATION WHERE NEW PAVEMENT MUST MATCH EXISTING PAVEMENT.
- LOCATION OF THE CONTRACTOR'S ENTRANCES, HAUL ROUTS AND STAGING AREA SHALL BE AS SHOWN ON SHEETS C1.3 - PROJECT LAYOUT PLAN.

- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY LIGHTING AND/OR JUMPER CABLES AS APPROVED BY CITY OF COOLIDGE PERSONNEL TO MAINTAIN LIGHTING ON AREAS NOT CLOSED FOR CONSTRUCTION. THIS WORK SHALL BE INCIDENTAL TO CONSTRUCTION. JUMPER CABLES SHALL BE INSTALLED IN SUCH A MANNER TO PREVENT VEHICLES OR AIRCRAFT FROM PASSING OVER THEM AND IN A MANNER APPROVED BY THE AIRPORT.
- 11. THE CONTRACTOR SHALL PROTECT ALL EXISTING HAUL ROUTES, STORM DRAINS, SEWERS, CATCH BASINS, ELECTRIC LINES, TELEPHONE LINES AND MISCELLANEOUS UTILITIES WITHIN THE WORK ZONE. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 12. THE CONTRACTOR SHALL SUBMIT A SAFETY PLAN TO THE AIRPORT AND THE ENGINEER AT LEAST 72 HOURS BEFORE THE CLOSURE OF ANY PAVEMENTS. BARRICADES SHALL HAVE A MINIMUM SPACING OF 10 FEET AND A MAXIMUM HEIGHT OF 2 FEET, SEE TEMPORARY AIRFIELD BARRICADE DETAIL ON SHEET C1.3 - PROJECT LAYOUT PLAN. BARRICADE PLACEMENT AND OPERATION SHALL BE INSPECTED EACH DAY AND INOPERATIVE LIGHTS OR DAMAGED BARRICADES SHALL IMMEDIATELY REPLACED.
- 13. TRESPASSING ON PROPERTIES NOT OWNED BY TOMBSTONE MUNICIPAL AIRPORT OR ON TOMBSTONE MUNICIPAL AIRPORT PROPERTIES OUTSIDE THE LIMITS OF WORK SHALL NOT BE ALLOWED.
- 14. THE CONTRACTOR SHALL PROTECT ALL EXISTING PAVEMENTS. AS DETERMINED BY THE ENGINEER AND/OR THE AIRPORT, PAVEMENTS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S OWN EXPENSE.
- 15. THE CONTRACTOR SHALL GIVE TOMBSTONE MUNICIPAL AIRPORT 72 HOURS NOTICE BEFORE BEGINNING WORK IN ANY AREA.
- 16. THE CONTRACTOR SHALL REMOVE ALL DEBRIS FROM AIRFIELD PAVEMENTS BEFORE OPENING THE AREA TO AIRCRAFT. VACUUM SWEEPERS ARE REQUIRED.
- 17. THE CONTRACTOR SHALL PROVIDE 24 HOUR ACCESS TO EMERGENCY VEHICLES THROUGHOUT THE CONSTRUCTION AREA.
- 18. WORK OUTSIDE THE RUNWAY/TAXIWAY CLEAR ZONES MAY BE PERFORMED DURING DAYLIGHT HOURS AND WITHOUT RUNWAY/TAXIWAY CLOSURE UPON APPROVAL OF TOMBSTONE MUNICIPAL AIRPORT.
- 19. CONSTRUCTION CREWS SHALL GIVE WAY TO AIRCRAFT. ACCESS TO INDICATED AREAS SHALL BE MAINTAINED AND ALL CLOSURES COORDINATED WITH TOMBSTONE MUNICIPAL AIRPORT A MINIMUM OF THREE WORKING DAYS PRIOR TO CLOSURE.
- 20. REFER TO ADVISORY CIRCULAR AC-150/5370-2 (LATEST EDITION) FOR OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION.
- 21. REFER TO ADVISORY CIRCULAR AC-150/5210-5 (LATEST EDITION) FOR PAINTING, MARKING & LIGHTING OF VEHICLES ON AN AIRPORT.
- 22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EFFORT AND COST OF IMMEDIATE CLEANING OF EARTH TRACKING AND SPILLS ON PAVED SURFACES RESULTING FROM THE CONTRACTOR'S OPERATIONS. BECAUSE OF THE POTENTIAL FOR EXTREME DAMAGE TO AIRCRAFT ENGINES BY INGESTION OF FOREIGN OBJECTS, THE CONTRACTOR SHALL OPERATE AND MAINTAIN MECHANICAL SWEEPER/VACUUM (WET/DRY) EQUIPMENT COMPLETE WITH OPERATORS ON THE PROJECT DURING ANY HAULING OR OTHER OPERATIONS ACROSS TAXIWAYS, TAXILANES OR APRONS. SWEEPER/VACUUM EQUIPMENT SHALL BE USED FOR CLEAN UP PROCESS ONLY AND SHALL REMAIN ON STAND BY WHEN NOT CLEANING.

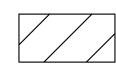
ABBREVIATIONS

-			
	ABANDONED	MIDI	MEDIUM INTENCITY DUNIWAY LIQUITO
ABC	AGGREGATE BASE COURSE ADVISORY CIRCULAR OR ASPHALTIC CONCRETE AMERICAN CONCRETE INSTITUTE AHEAD AIRPORT IMPROVEMENT PROGRAM AIRPORT LAYOUT PLAN APPROACH LIGHT SYSTEM AIR OPERATIONS AREA APPROXIMATE	MIRL	MEDIUM INTENSITY RUNWAY LIGHTS
AC	ADVISORY CIRCULAR OR ASPHALTIC CONCRETE	MIIL	MEDIUM INTENSITY TAXIWAY LIGHTS
ACI	AMERICAN CONCRETE INSTITUTE	ML	MONUMENT LINE
AHD	AHEAD	Ν	NORTH
AIP	AIRPORT IMPROVEMENT PROGRAM	NE	NORTHEAST
ΔΙΡ	AIRPORT I AYOUT PLAN	NEC	NATIONAL ELECTRIC CODE
ALC	ADDDOACH HOUT CVCTEM	NFMA	NATIONAL FLECTRICAL MANUFACTURES ASSOCIATION
ALS	APPROACH LIGHT STSTEM	NPIAS	NATIONAL PLAN OF INTEGRATED AIRPORT SYSTEMS
AUA	ARROPERATIONS AREA	NA VAID	NAVIGATIONAL AID
APPROX	APPROXIMATE	NDB	NON-DIRECTIONAL BEACON
APS	ARIZONA PUBLIC SERVICE	NEDA	NON-DINECTIONAL DEACON
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	NFFA	NATIONAL FIRE PROTECTION ASSOCIATION
ATCT	AIR TRAFFIC CONTROL TOWER	1110	1101 111 0011117701
AWOS	AUTOMATED WEATHER OBSERVATION SYSTEM	NO	NUMBER
BK	BACK	NOTAM	NOTICE TO AIRMEN
ВМ	BENCH MARK	NP	NON-PLASTIC
BT	BASIC TRANSPORT	NPI	NON-PRECISION INSTRUMENT/NON-PAY ITEM
BU	RASIC LITILITY	NTP	NOTICE TO PROCEED
BVC	BEGIN VERTICAL CLIRVE	NTS	NOT TO SCALE
BVCE	RECIN VERTICAL CURVE ELEVATION	NW	NORTHWEST
BVCS	DEGIN VENTICAL CURVE ELEVATION	OC	ON CENTER
D V C 3	ODACH FIDE AND DECOME AND	OD	OUTSIDE DIAMETER
CFR	CRASH, FIRE, AND RESCUE AND	OSHA	OCCUPATIONAL SAFETY AND HEALTH ACT
050	CODE OF FEDERAL REGULATIONS	DVDI	PRECISION APPROACH PATH INDICATOR
CFS	CUBIC FEET PER SECOND	DC	DOINT OF CHOMATHE
CIP	BACK BENCH MARK BASIC TRANSPORT BASIC UTILITY BEGIN VERTICAL CURVE BEGIN VERTICAL CURVE ELEVATION BEGIN VERTICAL CURVE STATION CRASH, FIRE, AND RESCUE AND CODE OF FEDERAL REGULATIONS CUBIC FEET PER SECOND CAST IRON PIPE CAST—IN—PLACE CONCRETE PIPE	F C	POINT OF CURVATURE
		PCC	PORTLAND CEMENT CONCRETE OR
CL	CENTERLINE	<u>.</u>	POINT OF COMPOUND CURVE
CLR	CLEARANCE	PI	POINT OF INTERSECTION OR
CMP	CORRUGATED METAL PIPE	_	PLASTICITY INDEX
CPT	CONTROL POINT	PL	PROPERTY LINE
CY	CUBIC YARDS	POC	POINT ON CURVE
DIA	DIAMETER	PP	POWER POLE
NIP	DUCTUE IRON PIPE	PRC	POINT OF REVERSE CURVE
E		PROP	PROPOSED
EA	ENVIRONMENTAL ASSESSMENT OR EACH	PSI	POUNDS PER SQUARE INCH
	ENVIRONMENTAL ASSESSMENT ON EACH	PT	POINT OF TANGENCY
EL	ELEVATION	PVC	POLYVINYL CHLORIDE
EOP	EDGE OF PAVEMENT END VERTICAL CURVE END VERTICAL CURVE ELEVATION END VERTICAL CURVE STATION EXISTING	PVI	POINT OF VERTICAL INTERSECTION
EVC	END VERTICAL CURVE	PVMT	PAVEMENT
EVCE	END VERTICAL CURVE ELEVATION		
EVCS	END VERTICAL CURVE STATION	R	RADIUS
EX	EXISTING	RCP	REINFORCED CONCRETE PIPE
EXIST	EXISTING	REIL	RUNWAY END IDENTIFIER LIGHTS
FAA	FEDERAL AVIATION AGENCY (ADMINISTRATION)	RGRCP	
FAR	FEDERAL AVIATION REGULATION	RP	RADIUS POINT
	FIXED BASE OPERATOR	RSA	RUNWAY SAFETY AREA
FH	FIRE HYDRANT	RW	RIGHT-OF-WAY
	FLOWLINE	R/W	RUNWAY
FOD	FOREIGN OBJECT DAMAGE/DEBRIS	RŴY	RUNWAY
FPS	FEET PER SECOND	RT	RIGHT
		S	SLOPE OR SOUTH
GA	GENERAL AVIATION OR GAUGE	SD	STORM DRAIN
GB	GRADE BREAK	SE	SOUTHEAST
GALV	GALVANIZED	SEC	SECTION
GR	GRATE ELEVATION	SEC SF	
GT	GENERAL TRANSPORT		SEMI-FLUSH OR SQUARE FEET
GU	GENERAL UTILITY	SHT	SHEET
HORIZ	GRATE ELEVATION GENERAL TRANSPORT GENERAL UTILITY HORIZONTAL HIGH POINT INVERT ELEVATION INSTRUMENT FLIGHT RULES INSTRUMENT LANDING SYSTEM	SPA	SPACING
HP	HIGH POINT	SPEC	SPECIFICATIONS
ΙE	INVERT ELEVATION	SRP	SALT RIVER PROJECT
IE IFR ILS	INSTRUMENT FLIGHT RULES	STA	STATION
ILS	INSTRUMENT LANDING SYSTEM	STD	STANDARD
INT	INTERSECTION	SW	SOUTHWEST
IR	IRON ROD	SY	SQUARE YARD
IRRIG	IRRIGATION	TSA	TAXIWAY SAFETY AREA
		T/W	TAXIWAY
JT	JOINT	TWY	TAXIWAY
ΚV	KILOVOLT	TYP	TYPICAL
	LINEAR FEET	UL	UNDERWRITERS LABORATORY
	LUMP SUM	UTIL	UTILITY
LT	LEFT		
MAG	MARICOPA ASSOCIATION OF GOVERNMENTS	VAR	VARIES
MAX	MAXIMUM	VASI	VISUAL APPROACH SLOPE INDICATOR
MBE	MINORITY BUSINESS ENTERPRISE	VC	VERTICAL CURVE
MGW	MAXIMUM GROSS WEIGHT	VERT	VERTICAL
МН	MANHOLE	VFR	VISUAL FLIGHT RULES
MIN	MINIMUM	VPI	VERTICAL POINT OF INTERSECTION
		W	WEST
		W	WELDED
		WF	WIRE FABRIC
		WV	WATER VALVE

LEGEND

------ CENTERLINE/SURVEY LINE PROPOSED EDGE OF STRUCTURAL PAVEMENT EXISTING EDGE OF STRUCTURAL PAVEMENT EXISTING CULVERT/PIPE PROPOSED CULVERT/PIPE ---- APPROXIMATE LIMIT OF GRADING ----- GRADE BREAK -··-- DRAINAGE DITCH/SWALE EXISTING CHAIN LINK FENCE ___ EXISTING CONTOUR PROPOSED CONTOUR BORING LOG CORE LOCATION

PROPOSED SPOT ELEVATION



BITUMINOUS FULL STRENGTH PAVEMENT



DETAIL/SECTION REFERENCE (DETAIL DESIGNATION ON TOP, SHEET NUMBER ON BOTTOM)



HAUL ROUTE

LOW PROFILE BARRICADES

RASE RID

Item	Specification			
No.	Number	Bid Item Description	Quantity	Unit
1	C-100	Contractor Quality Control	1	LS
2	C-102	Storm Water Pollution Prevention	1	LS
3	C-105	Mobilization/Demobilization (Maximum of 5%)	1	LS
4	SP-60.1	Airside Safety and Security / Traffic Control	1	LS
5	P-101	Bituminous Pavement Removal (6 In. Depth)	100	SY
6	P-151	Clearing and Grubbing	1	AC
7	P-152.1	Unclassified Excavation	600	CY
8	P-152.2	Compacted Subgrade - 8" Depth	1,400	SY
9	P-208	Aggregate Base Course	300	CY
10	P-401	Asphalt Mix Pavement	300	TONS
11	P-610	Aircraft Tie-Down	9	EA
12	P-620	Reflective Yellow Pavement Markings, Waterborne	110	SF
13	D-701	24-inch Concrete Pipe RGRCP, Class III	70	LF
14	D-751	Storm Drain RGRCP Flared End Section	4	EA
15	MAG 220.5	Ungrouted Rip Rap, D50=9", with Geosynthetic Fabric	100	CY

QUANTITIES

ALTERNATE 1				
Bid Item Description				
-				

Specification			
Number	Bid Item Description	Quantity	Unit
C-100	Contractor Quality Control	1	LS
C-105	Mobilization/Demobilization (Maximum of 5%)	1	LS
Item-102.1	Herbicide Application	900	LF
SP-60.1	Airside Safety and Security / Traffic Control	1	LS
Item-107.1	Crack Repair	900	LF
Item-608.1	Emulsified Asphalt Seal Coat	1,520	SY
	C-100 C-105 Item-102.1 SP-60.1 Item-107.1	Number Bid Item Description C-100 Contractor Quality Control C-105 Mobilization/Demobilization (Maximum of 5%) Item-102.1 Herbicide Application SP-60.1 Airside Safety and Security / Traffic Control Item-107.1 Crack Repair	NumberBid Item DescriptionQuantityC-100Contractor Quality Control1C-105Mobilization/Demobilization (Maximum of 5%)1Item-102.1Herbicide Application900SP-60.1Airside Safety and Security / Traffic Control1Item-107.1Crack Repair900

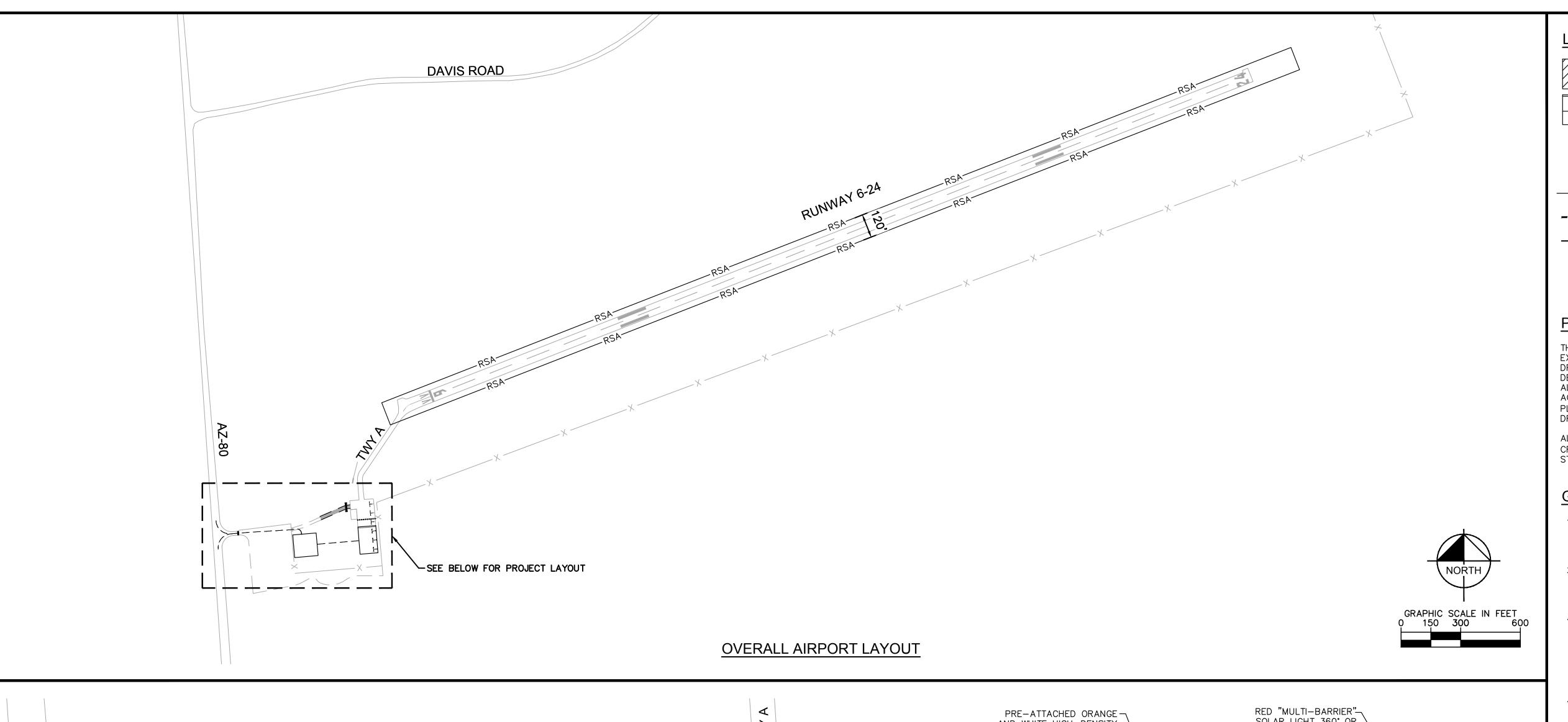
PROJECT NO. 191593007 DRAWING NAME

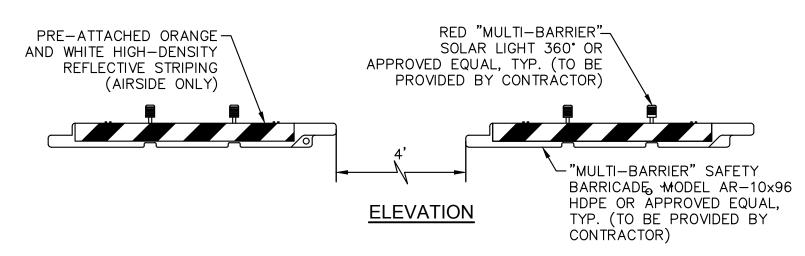
Horn

Kimley

OF TOMBST 2015 AZ-80 3STONE, AZ 8

91910003NT.dwg HEET NO. 2 OF 12





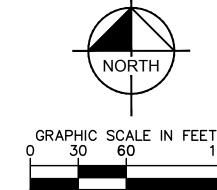
N.T.S.

AIRPORT CONTROL STATION

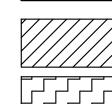
CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	48771.81	47639.54	4741.98'	EDGE OF PAVEMENT
2	48775.84	47686.63	4741.55'	EDGE OF PAVEMENT
3	48778.48	47712.24	4741.30'	EDGE OF PAVEMENT
4	48781.08	47755.91	4740.85'	EDGE OF PAVEMENT
5 (TEMP)	48634.34	47680.69	4743.20'	EDGE OF PAVEMENT (TO BE DEMOLISHED)
6 (TEMP)	48641.97	47770.12	4742.25	EDGE OF PAVEMENT (TO BE DEMOLISHED)

DATUM

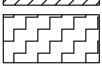
HORIZONTAL DATUM NAD 83/ARIZONA CENTRAL ZONE VERTICAL DATUM NAVD '88 UNITS: INTERNATIONAL FEET GRID FACTOR: 1.000145



LEGEND



PROJECT AREA





HORIZONTAL AND VERTICAL CONTROL POINTS. TEMPORARY CONSTRUCTION BENCH MARK.

STAGING AREA

---- HAUL ROUTE/SITE ACCESS

— — GRADING LIMITS

LOW PROFILE BARRICADES (TO BE PROVIDED/MAINTAINED BY CONTRACTOR)

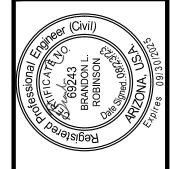
PROJECT DESCRIPTION

THE BASE BID FOR THIS PROJECT CONSISTS OF THE EXPANSION OF EXISTING APRON PAVEMENT WITH DRAINAGE IMPROVEMENTS. THE PROJECT INCLUDES DEMOLITION OF EXISTING ASPHALT APRON EDGE TO ALLOW FOR A CLEAR TIE IN, SUBGRADE PREPARATION, AGGREGATE BASE PLACEMENT, AC AIRFIELD PAVEMENT PLACEMENT, PAVEMENT MARKING/STRIPING, AND STORM DRAINS.

ALTERNATIVE 1 OF THIS PROJECT CONSISTS OF THE CRACK SEAL, SEAL COAT, AND PAVEMENT MASKING/ STRIPING.

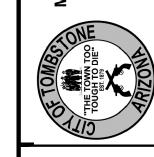
GENERAL NOTES:

- 1. THE CONTRACTOR SHALL NOT START WORK UNTIL A N.T.P. HAS BEEN ISSUED BY THE CITY OF TOMBSTONE.
- 2. THE CONTRACTOR SHALL COORDINATE ANY NECESSARY CLOSURES WITH THE AIRPORT, PRIOR TO STARTING WORK.
- 3. THE CONTRACTOR SHALL VERIFY THE BARRICADES FOR EACH PHASE OF THE PROJECT ARE IN THE CORRECT LOCATION, ARE PROPERLY SECURED, AND ARE IN PROPER WORKING ORDER PRIOR TO STARTING WORK EACH DAY/NIGHT OF THE PROJECT.
- 4. THE CONTRACTOR SHALL NOT STRAY FROM THE HAUL ROUTE / SITE ACCESS DESIGNATED ON THE PROJECT LAYOUT PLAN, THIS SHEET.



Kimley
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7740 North 16th Street

Horn



OMBSTONE MUNICIPAL AIRPOR APRON EXPANSION PROJECT LAYOUT PLAN

PROJECT NO. 191593007

DRAWING NAME 191910003PL.dwg C1.3

SHEET NO. 3 OF 12

APRON _SECURITY FENCE (EXISTING) SECURITY GATE /-HAUL ROUTE/ SITE ACCESS EXISTING HANGAR -BUILDING LOW-PROFILE BARRICADES (TYP) PROJECT AREA -(PROPOSED APRON EXPANSION) - CONSTRUCTION STAGING AREA -SECURITY FENCE

PROJECT LAYOUT

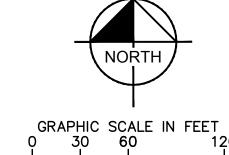
EXISTING CATTLE GUARD

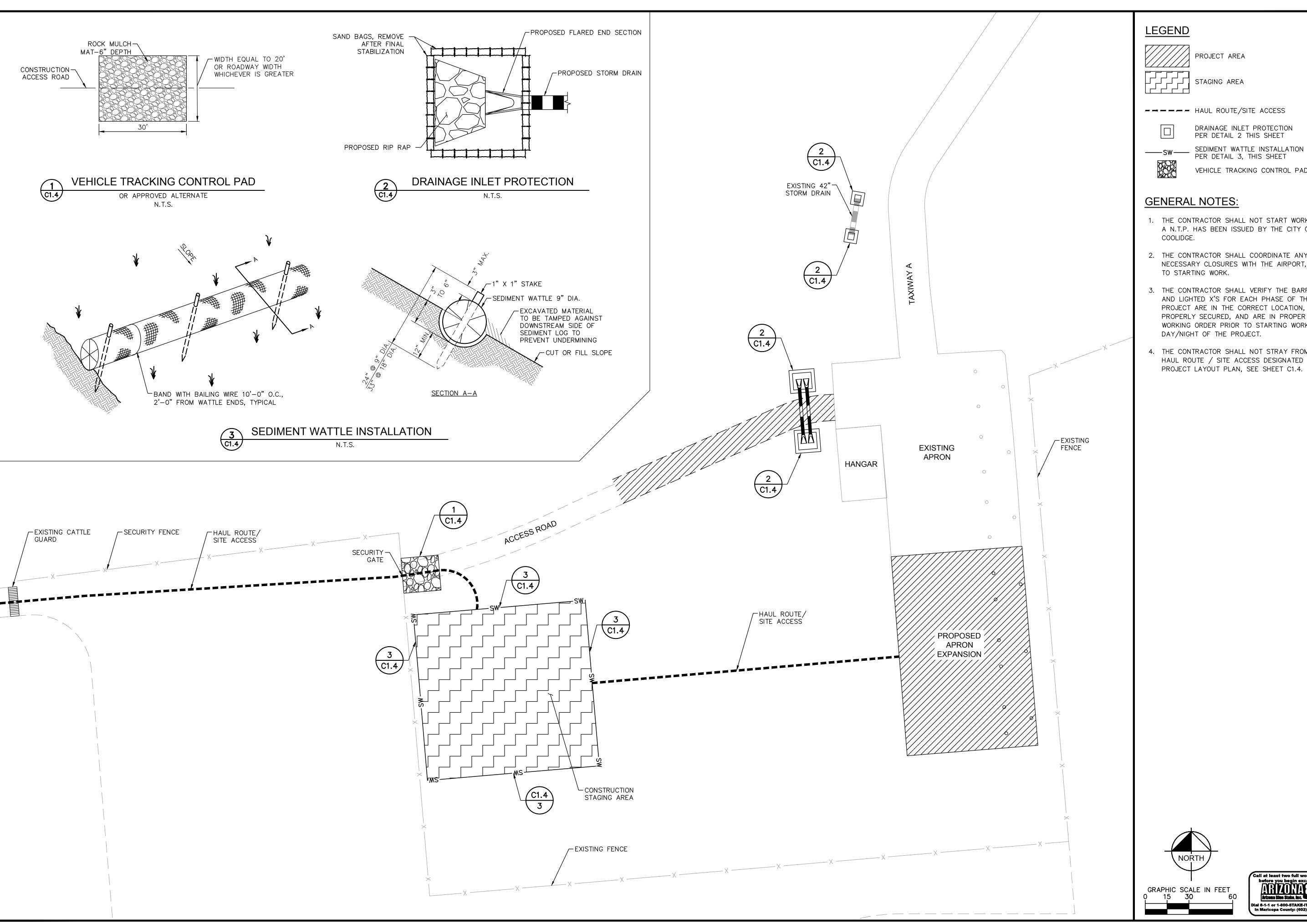
-80

EXISTING DIRT ACCESS TROAD TO BE REALIGNED

LOW PROFILE BARRICADE

CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	48771.81	47639.54	4741.98'	EDGE OF PAVEMENT
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5 (TEMP)	48634.34	47680.69	4743.20'	EDGE OF PAVEMENT (TO BE DEMOLISHED)
6 (TEMP)	48641 97	47770 12	4742 25'	FDGE OF PAVEMENT (TO BE DEMOLISHED)





PROJECT AREA

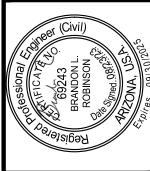
DRAINAGE INLET PROTECTION PER DETAIL 2 THIS SHEET

PER DETAIL 3, THIS SHEET VEHICLE TRACKING CONTROL PAD

GENERAL NOTES:

- 1. THE CONTRACTOR SHALL NOT START WORK UNTIL A N.T.P. HAS BEEN ISSUED BY THE CITY OF
- 2. THE CONTRACTOR SHALL COORDINATE ANY NECESSARY CLOSURES WITH THE AIRPORT, PRIOR TO STARTING WORK.
- 3. THE CONTRACTOR SHALL VERIFY THE BARRICADES AND LIGHTED X'S FOR EACH PHASE OF THE PROJECT ARE IN THE CORRECT LOCATION, ARE PROPERLY SECURED, AND ARE IN PROPER WORKING ORDER PRIOR TO STARTING WORK EACH DAY/NIGHT OF THE PROJECT.
- 4. THE CONTRACTOR SHALL NOT STRAY FROM THE HAUL ROUTE / SITE ACCESS DESIGNATED ON THE PROJECT LAYOUT PLAN, SEE SHEET C1.4.

Horn





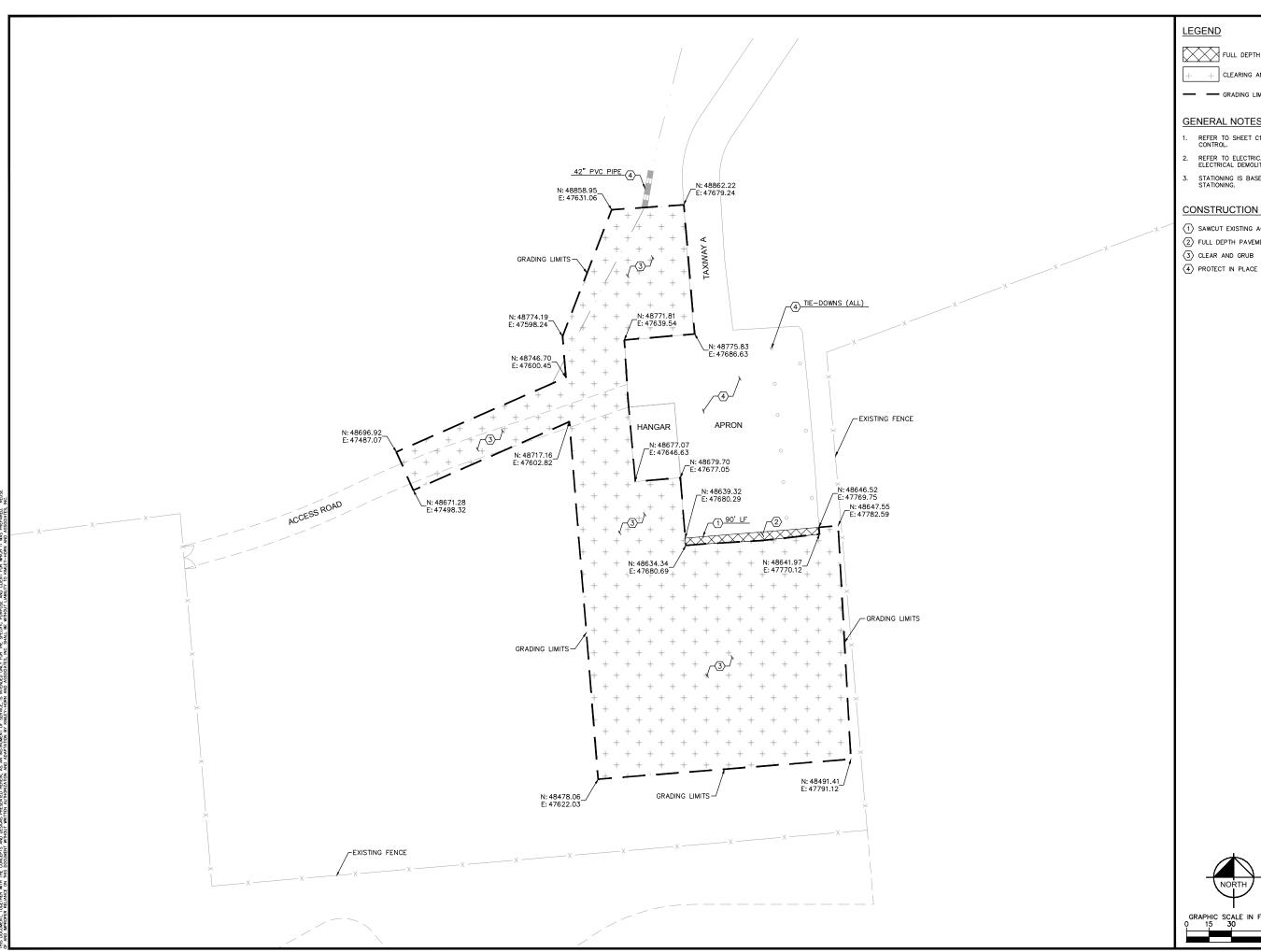
MBSTONE MUNICIPAL AIRPORT APRON EXPANSION STORMWATER POLLUTION PREVENTION PLAN

PROJECT NO. 191593007

DRAWING NAME 191910003SP.dwg

SHEET NO. 4 OF 12

al 8-1-1 or 1-800-STAKE-IT (782-53



FULL DEPTH PAVEMENT REMOVAL

CLEARING AND GRUB

- REFER TO SHEET C1.4 FOR HORIZONTAL AND VERTICAL CONTROL.

CONSTRUCTION NOTES

- 1 SAWCUT EXISTING AC PAVEMENT
- 2 FULL DEPTH PAVEMENT REMOVAL

Kimley » Horn







TONE MUNICIPAL AIRPOR APRON EXPANSION DEMOLITION

PROJECT NO. 191593007

DRAWING NAME 191910003DM.dwg

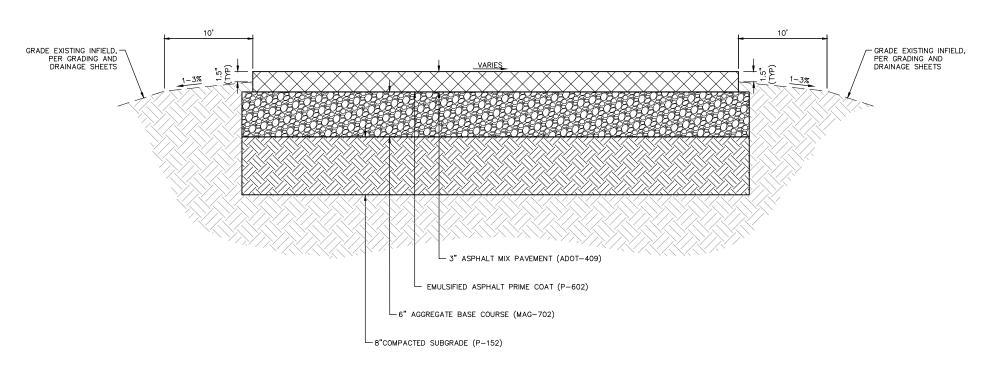
C2.1

- GRADING LIMITS

GENERAL NOTES

- REFER TO ELECTRICAL PLANS (SERIES E) FOR ELECTRICAL DEMOLITION.
- 3. STATIONING IS BASED ON RUNWAY 5-23 CENTERLINE STATIONING.

APRON PARKING TIE-IN N.T.S.







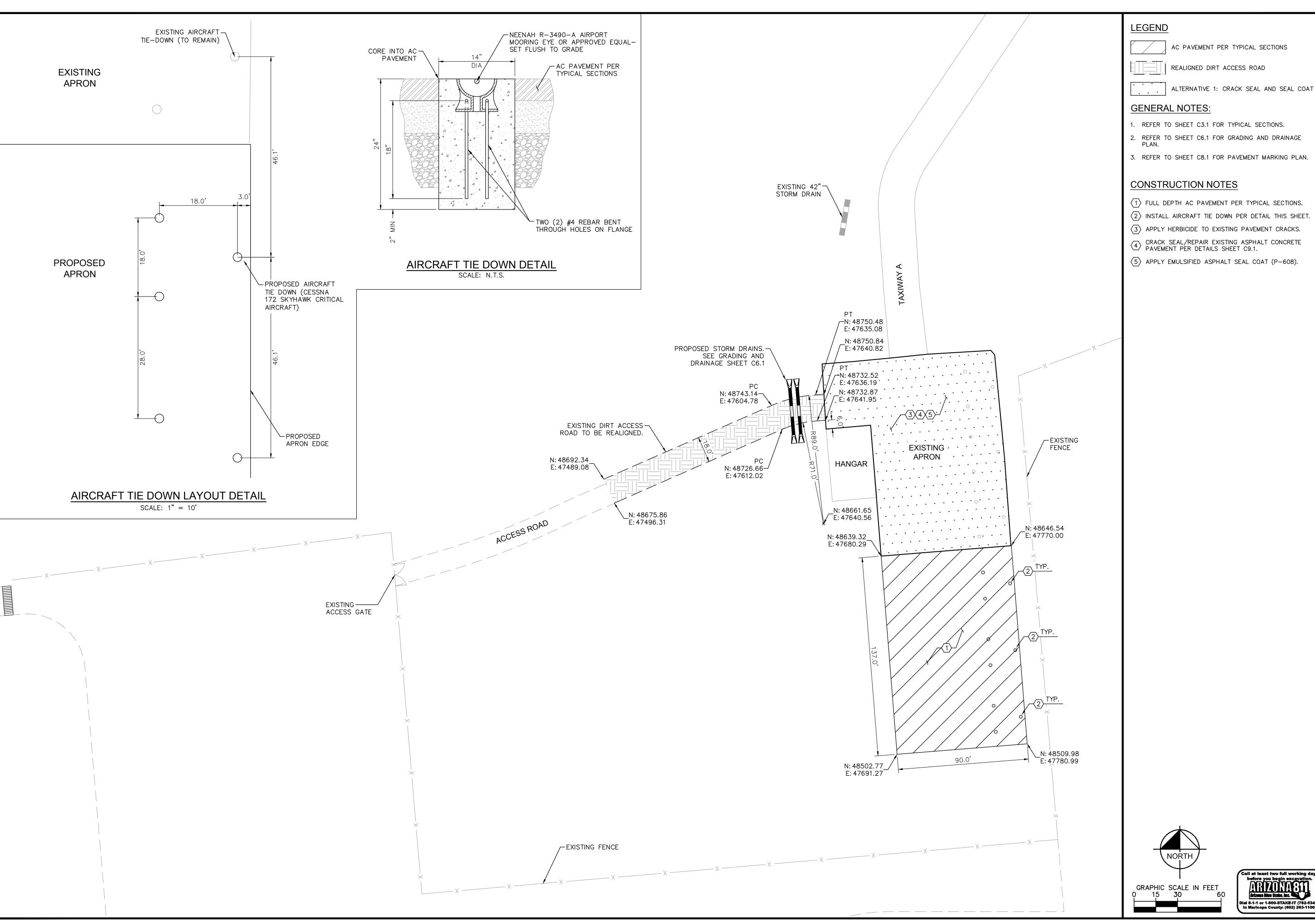
PROJECT NO. 191593007 DRAWING NAME 191910003TX.dwg

C3.1

TONE MUNICIPAL AIRPOR-APRON EXPANSION TYPICAL SECTIONS TOMBS

Kimley >>> Horn © 2023 KIMLEY-HORN AND ASSOCIATES, INC.

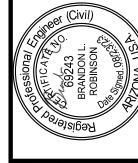
TOMBSTONE
MUNICIPAL AIRPORT
CITY OF TOMBSTONE
TOMBSTONE, AZ 86538



- 1. REFER TO SHEET C3.1 FOR TYPICAL SECTIONS.
- 2. REFER TO SHEET C6.1 FOR GRADING AND DRAINAGE
- 3. REFER TO SHEET C8.1 FOR PAVEMENT MARKING PLAN.

Horn

Kimley

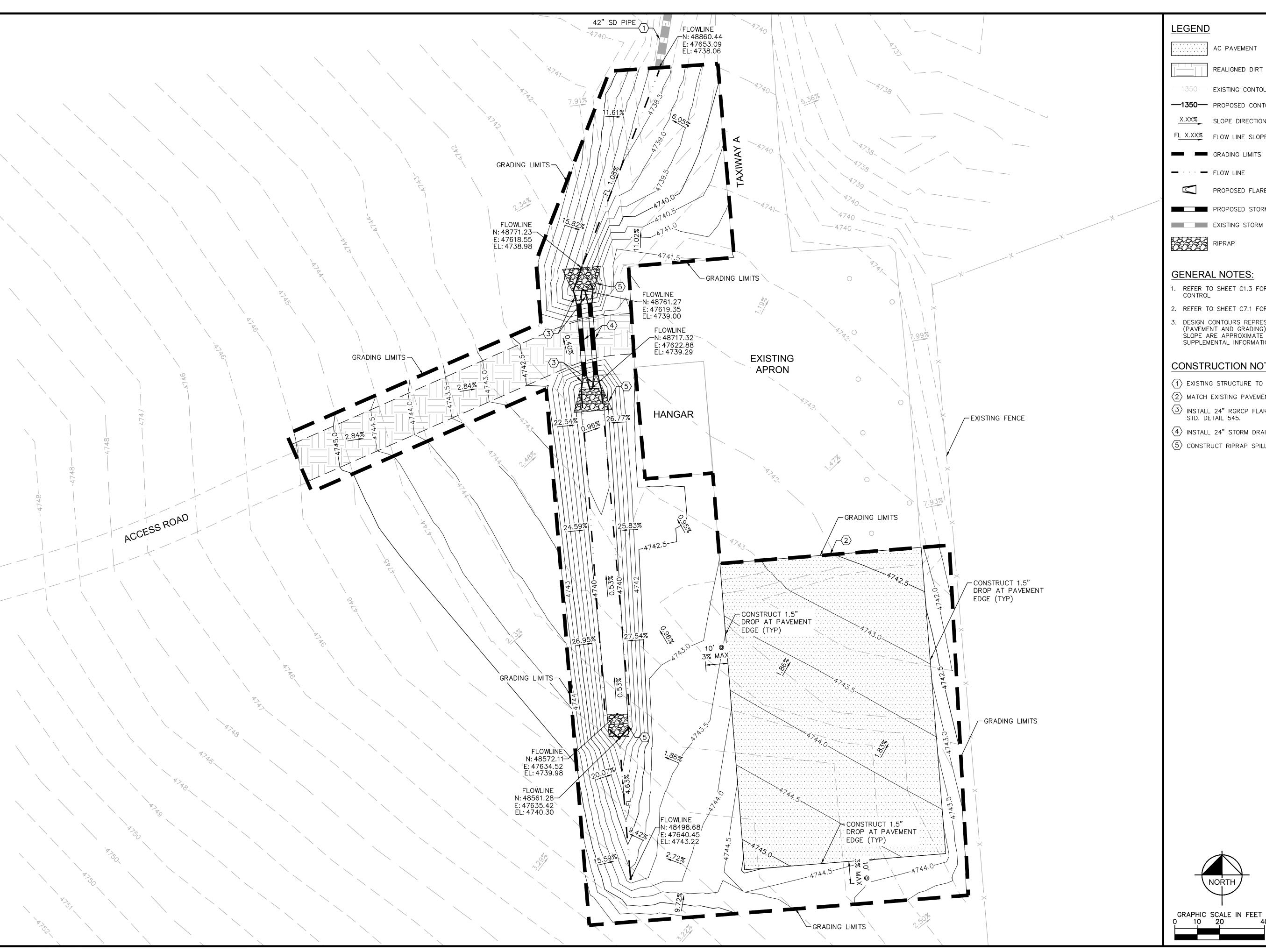




PROJECT NO. 191593007 DRAWING NAME

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SHEET NO. 7 OF 12



REALIGNED DIRT ACCESS ROAD

—1350— EXISTING CONTOUR

—1350— PROPOSED CONTOUR

X.XX% SLOPE DIRECTION

FL X.XX% FLOW LINE SLOPE DIRECTION

GRADING LIMITS

PROPOSED FLARED END SECTION

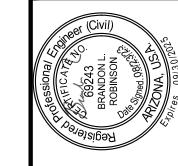
PROPOSED STORM DRAIN PIPE

EXISTING STORM DRAIN PIPE

- 1. REFER TO SHEET C1.3 FOR HORIZONTAL AND VERTICAL
- 2. REFER TO SHEET C7.1 FOR PAVEMENT ELEVATIONS
- 3. DESIGN CONTOURS REPRESENT FINISHED GRADE (PAVEMENT AND GRADING). CONTOURS AND PERCENT OF SLOPE ARE APPROXIMATE AND ARE SHOWN AS SUPPLEMENTAL INFORMATION ONLY.

CONSTRUCTION NOTES:

- (1) EXISTING STRUCTURE TO REMAIN PROTECTED IN PLACE
- $\langle 2 \rangle$ match existing pavement grade
- 3 INSTALL 24" RGRCP FLARED END SECTION PER MAG STD. DETAIL 545.
- $\overline{4}$ INSTALL 24" STORM DRAIN PIPE PER SHEET C6.2
- 5 CONSTRUCT RIPRAP SPILLWAY PER SHEET C6.2





TOMBSTONE MUNICIPAL AIRPOR APRON EXPANSION GRADING AND DRAINAGE

PROJECT NO. 191593007

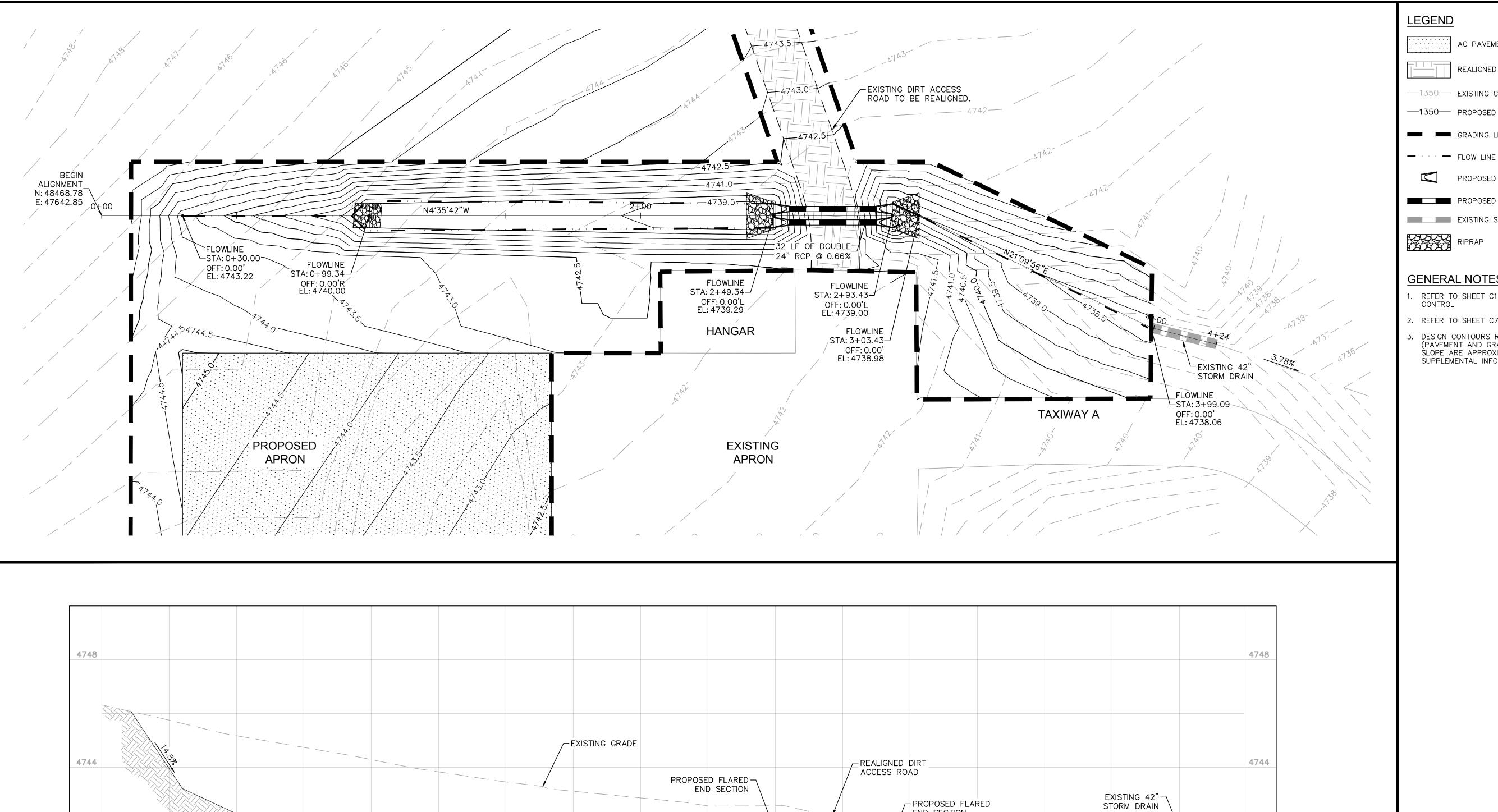
DRAWING NAME 191910003GD.dwg

C6.1 SHEET NO. 8 OF 12

Call at least two full working days before you begin excavation.

ARRONABILATION Arizona Bine Stake, Inc.

Dial 8-1-1 or 1-800-STAKE-IT (782-5348) In Maricopa County: (602) 263-1100



PROPOSED GRADE

1+00

4740

4736

4734

PROPOSED FLARED END SECTION

3+00

32 LF OF

DOUBLE 24" RCP @ 0.66%

2+00

AC PAVEMENT

REALIGNED DIRT ACCESS ROAD

—1350— EXISTING CONTOUR

—1350— PROPOSED CONTOUR

GRADING LIMITS

PROPOSED FLARED END SECTION

PROPOSED STORM DRAIN PIPE

EXISTING STORM DRAIN PIPE

GENERAL NOTES:

- 1. REFER TO SHEET C1.3 FOR HORIZONTAL AND VERTICAL
- 2. REFER TO SHEET C7.1 FOR PAVEMENT ELEVATIONS
- 3. DESIGN CONTOURS REPRESENT FINISHED GRADE (PAVEMENT AND GRADING). CONTOURS AND PERCENT OF SLOPE ARE APPROXIMATE AND ARE SHOWN AS SUPPLEMENTAL INFORMATION ONLY.

Kimley
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7740 North 16th Street

Horn



TONE MUNICIPAL AIRPORT APRON EXPANSION 1 DRAIN PLAN & PROFILE

STORM

PROJECT NO. 191593007

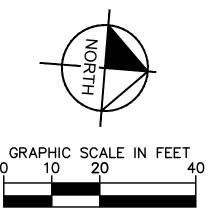
DRAWING NAME 191910003SD.dwg C6.2

Call at least two full working days before you begin excavation.

ARTONASI

Arizona Bise Stake, Inc.

Dial 8-1-1 or 1-800-STAKE-IT (782-5348) In Maricopa County: (602) 263-1100 SHEET NO. 9 OF 12

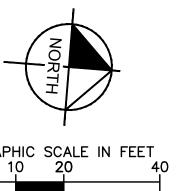


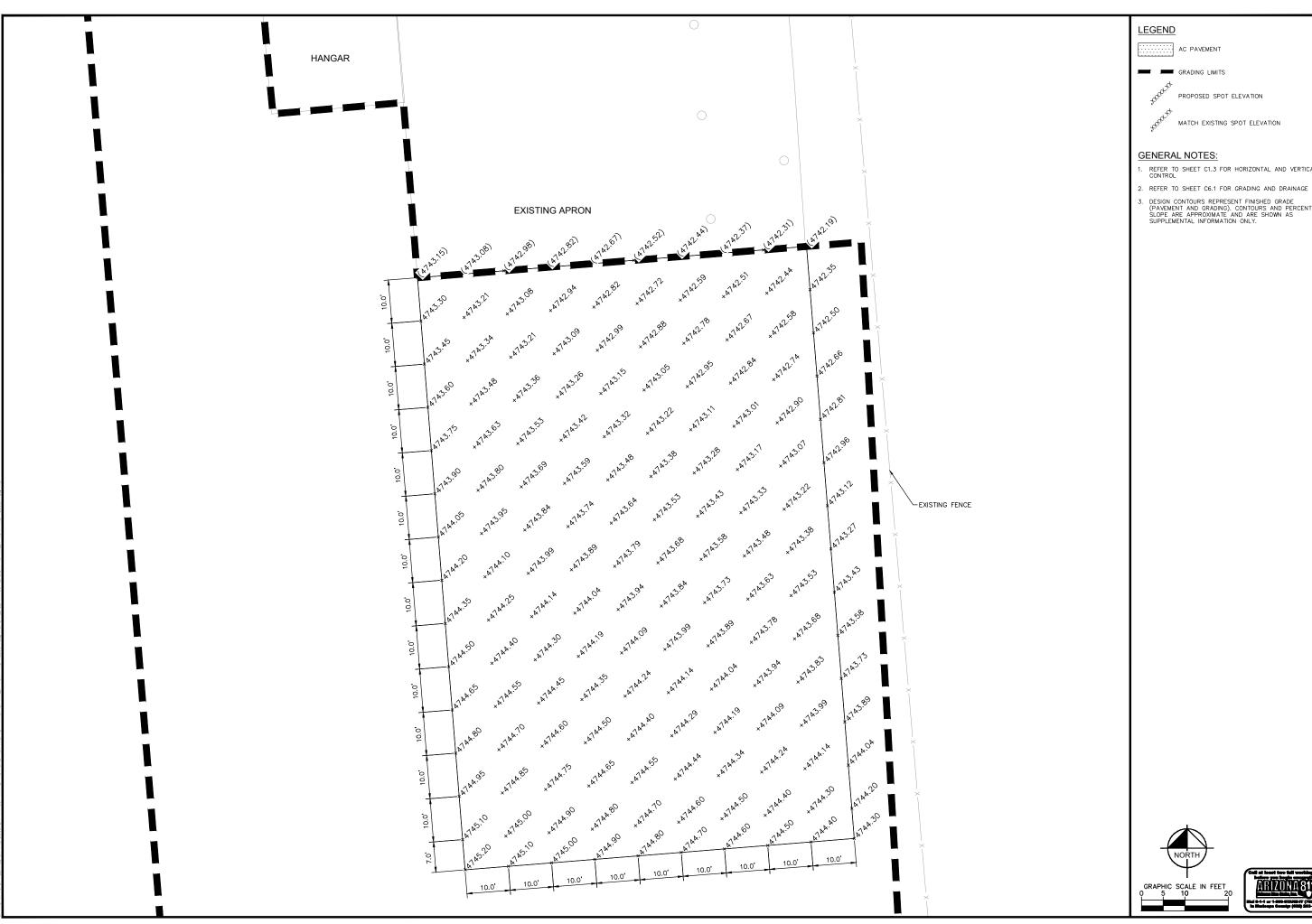
4740

4736

4734

4+00







MATCH EXISTING SPOT ELEVATION

- REFER TO SHEET C1.3 FOR HORIZONTAL AND VERTICAL CONTROL
- DESIGN CONTOURS REPRESENT FINISHED GRADE (PAVEMENT AND GRADING). CONTOURS AND PERCENT OF SLOPE ARE APPROXIMATE AND ARE SHOWN AS SUPPLEMENTAL INFORMATION ONLY.

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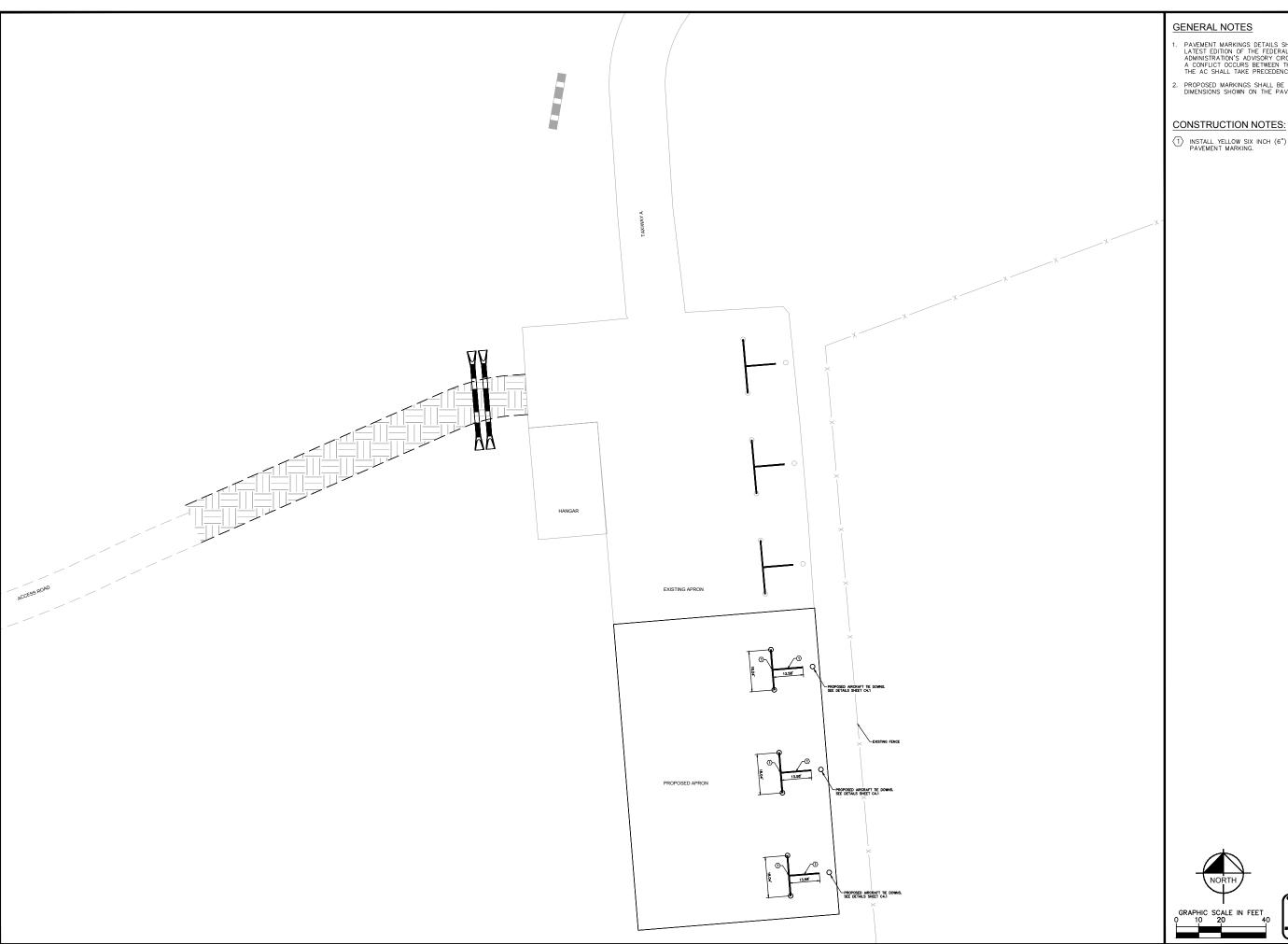


SSTONE MUNICIPAL AIRPOR APRON EXPANSION PAVEMENT ELEVATIONS

PROJECT NO. 191593007

DRAWING NAME 191910003PE.dwg

C7.1



- PAVEMENT MARKINGS DETAILS SHALL CONFORM TO THE LATEST EDITION OF THE FEDERAL AVIATION ADMINISTRATION'S ADVISORY CIRCULAR AC-150/5340. IF A CONFLICT OCCURS BETWEEN THESE PLANS AND THE AC, THE AC SHALL TAKE PRECEDENCE.
- PROPOSED MARKINGS SHALL BE INSTALLED PER THE DIMENSIONS SHOWN ON THE PAVEMENT MARKING PLANS.

 $\fbox{1}$ install yellow six inch (6") wide apron parking pavement marking.

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TOMBSTONE MUNICIPAL AIRPOR APRON EXPANSION PAVEMENT MARKING

PROJECT NO. 191593007

DRAWING NAME 191910003PM.dwg

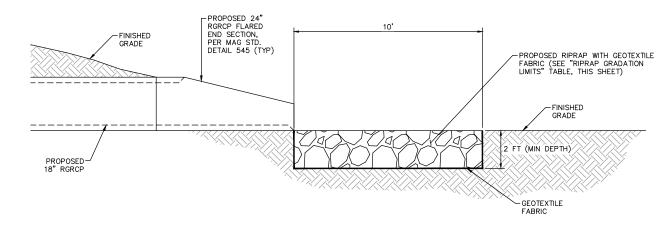
C8.1 HEET NO. 11 OF

GEOTEXTILE FABRIC-

RIP RAP SPILLWAY DETAIL

OB. 1 NTC

FINISHED GRADE -



OUTLET STABILIZATION DETAIL (SECTION VIEW)

RIPRAP GRADATION LIMITS

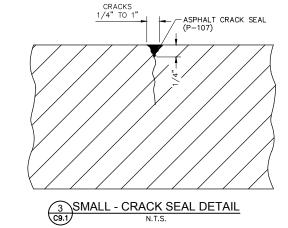
STONE SIZE RANGE (FT)	STONE WEIGHT RANGE (LB)	% OF GRADATION SMALLER THAN
1.5 (D50) TO 1.7 (D50)	3 (W50) TO 5 (W50)	100
1.2 (D50) TO 1.4 (D50)	2 (W50) TO 2.75 (W50)	85
1.0 (D50) TO 1.15 (D50)	1 (W50) TO 1.5 (W50)	50
0.4 (D50) TO 0.6 (D50)	0.1 (W50) TO 0.2 (W50)	15

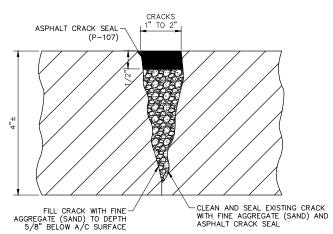
PROPOSED RIPRAP WITH GEOTEXTILE
FABRIC (SEE "RIPRAP GRADATION
LIMITS" TABLE, THIS SHEET)

INLET/OUTLET STABILIZATION DETAIL

N.T.S.

-FINISHED GRADE





4 MEDIUM - CRACK SEAL DETAIL N.T.S.



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TOMBSTONE MUNICIPAL AIRPORT CITY OF TOMPOCT CITY OF TOMBSTONE 2015 AZ-80 TOMBSTONE, AZ 85638



TOMBSTONE MUNICIPAL AIRPOR APRON EXPANSION DETAILS

PROJECT NO. 191593007 DRAWING NAME

191910003DT.dwg C9.1